**FIG. 1**

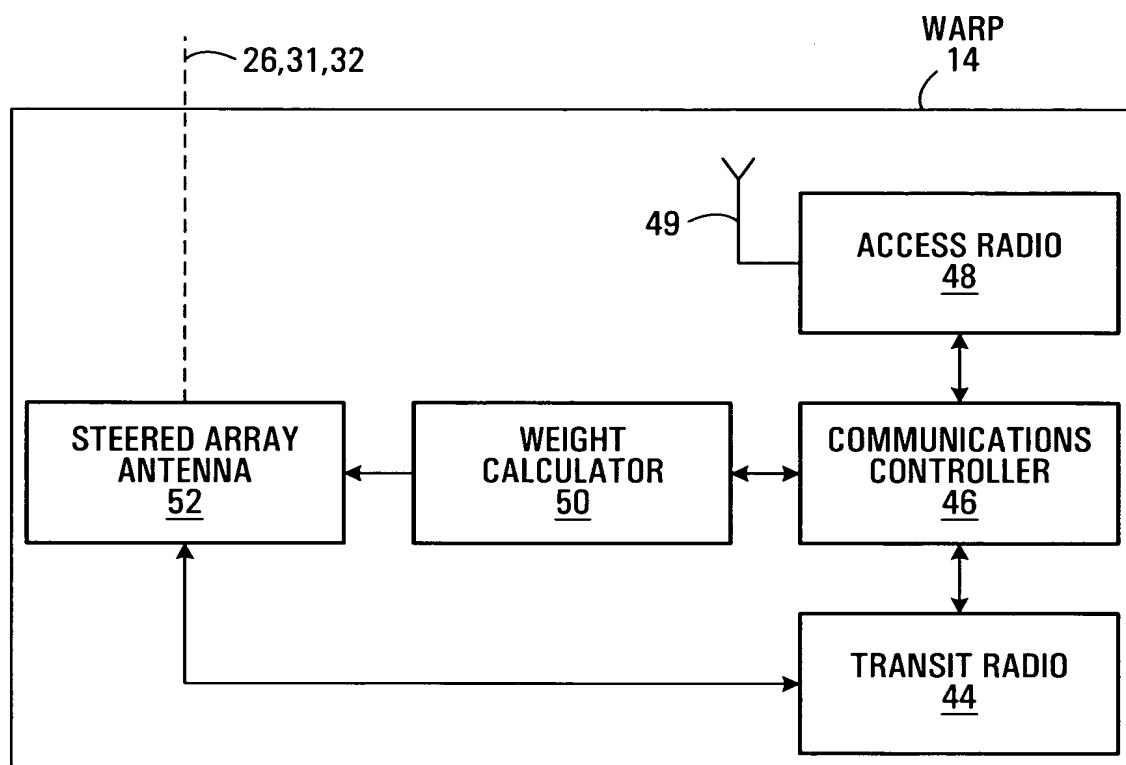
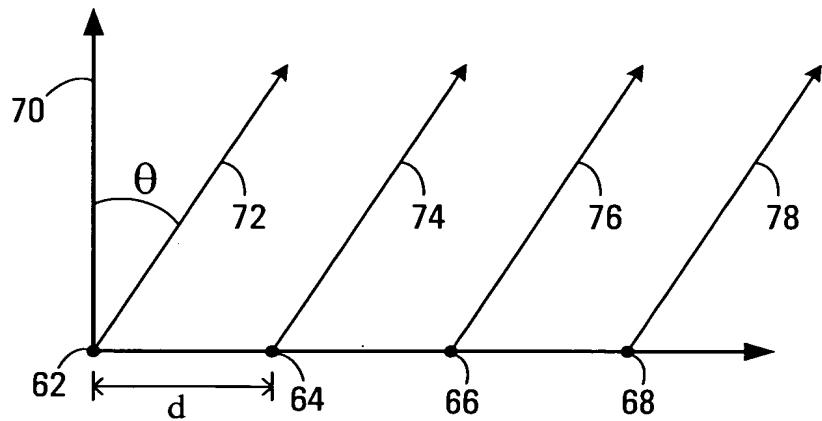
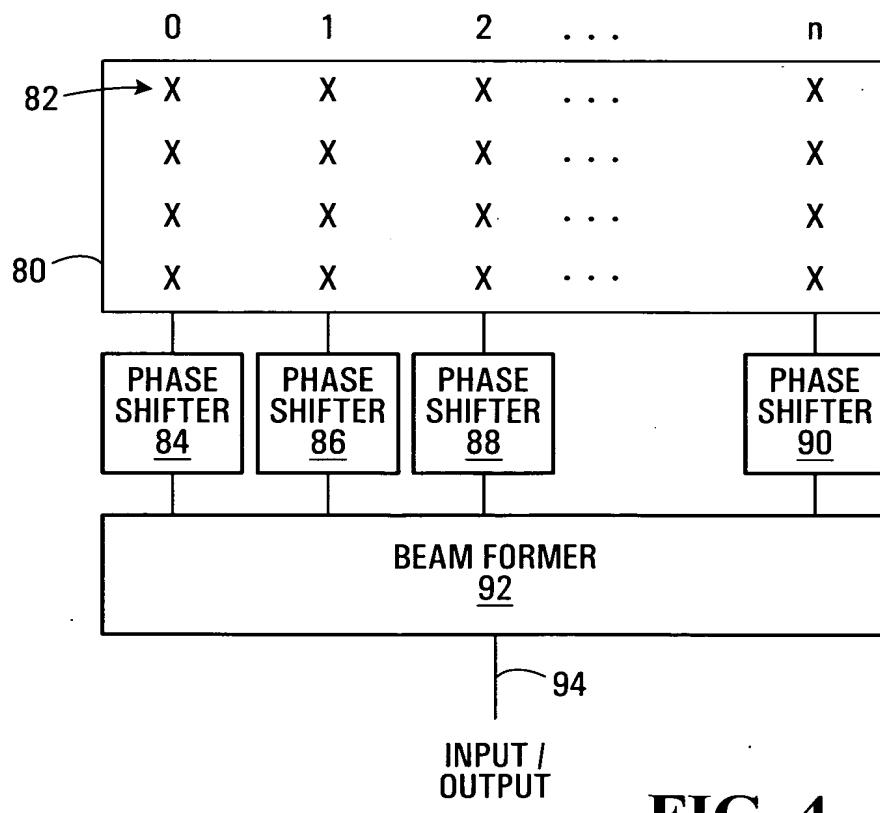


FIG. 2

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**FIG. 3****FIG. 4**

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Phased Array Antenna Pattern with a Uniform Antenna Element Excitation

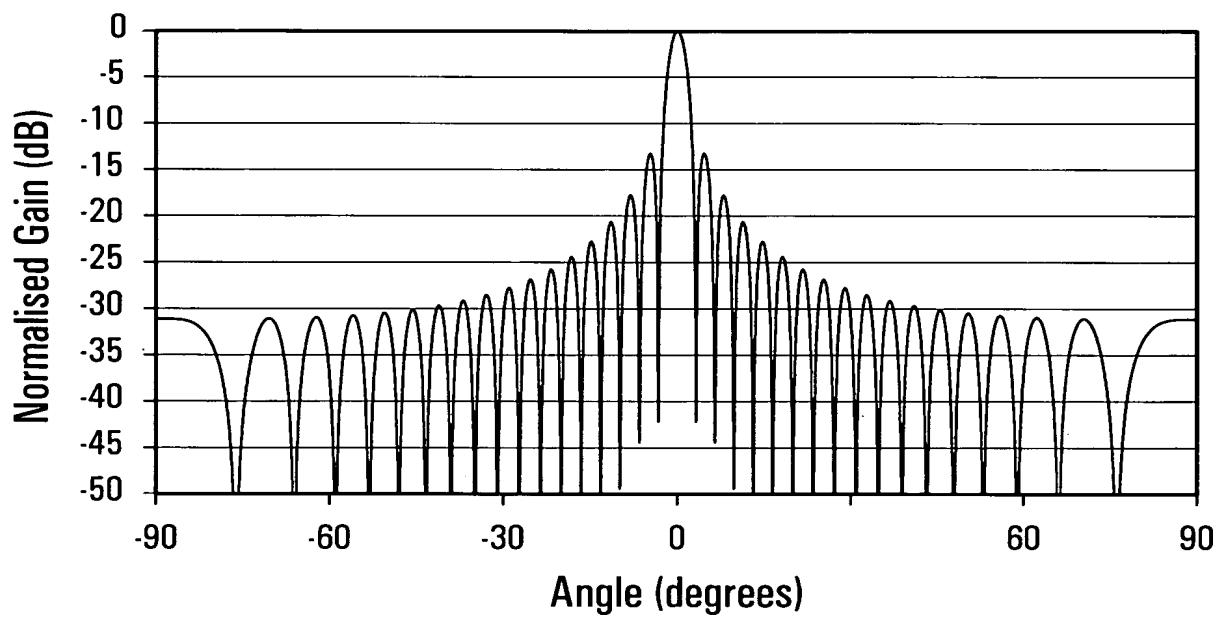


FIG. 5

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**Phased Array Antenna Pattern with a Chebyshev
-30dB Sidelobe Antenna Element Excitation**

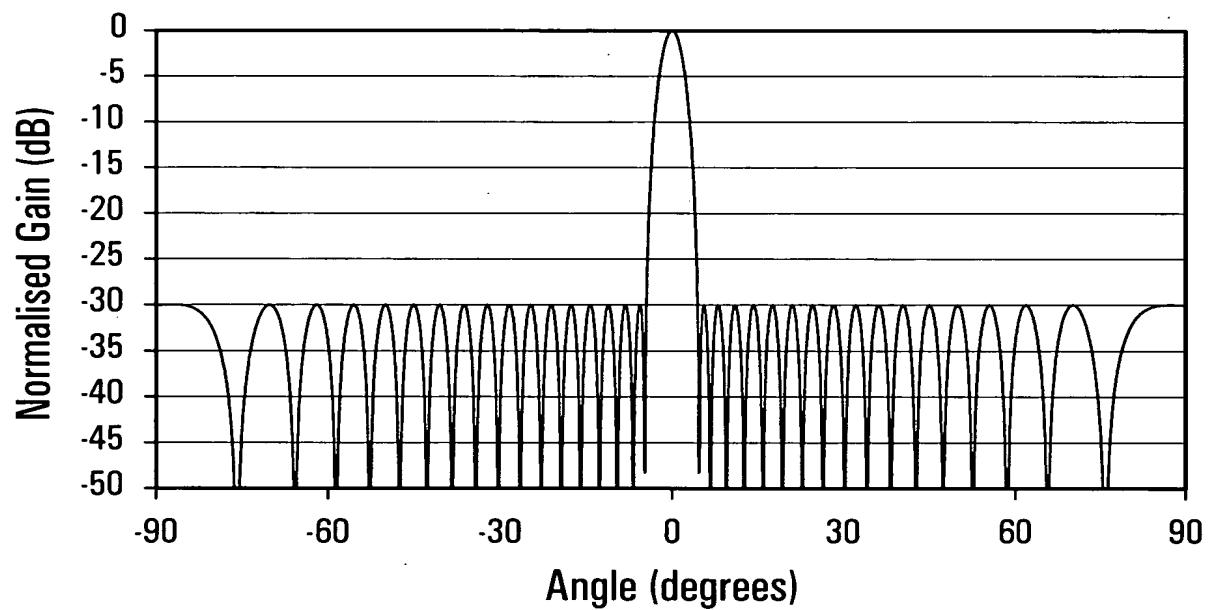


FIG. 6

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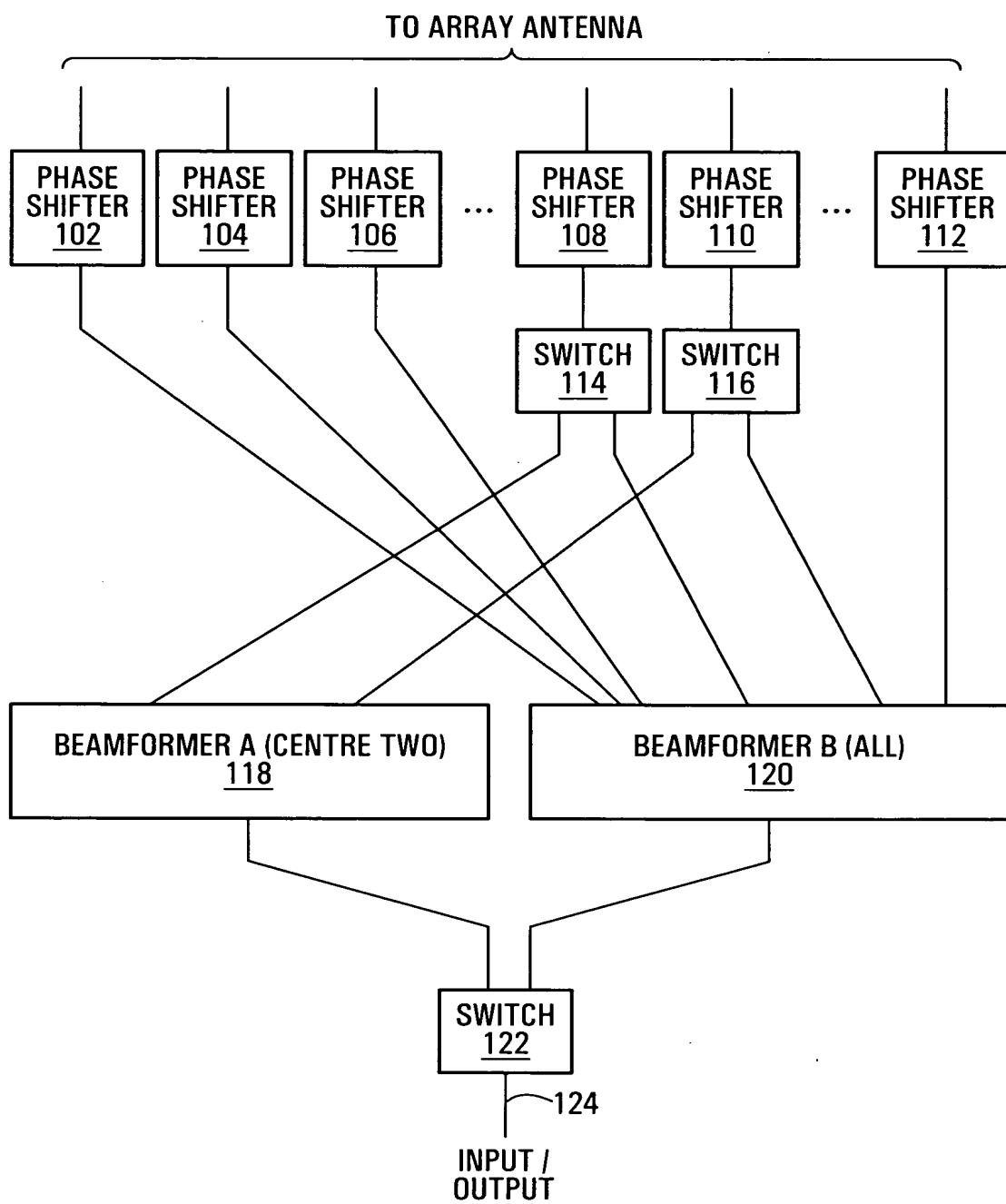


FIG. 7

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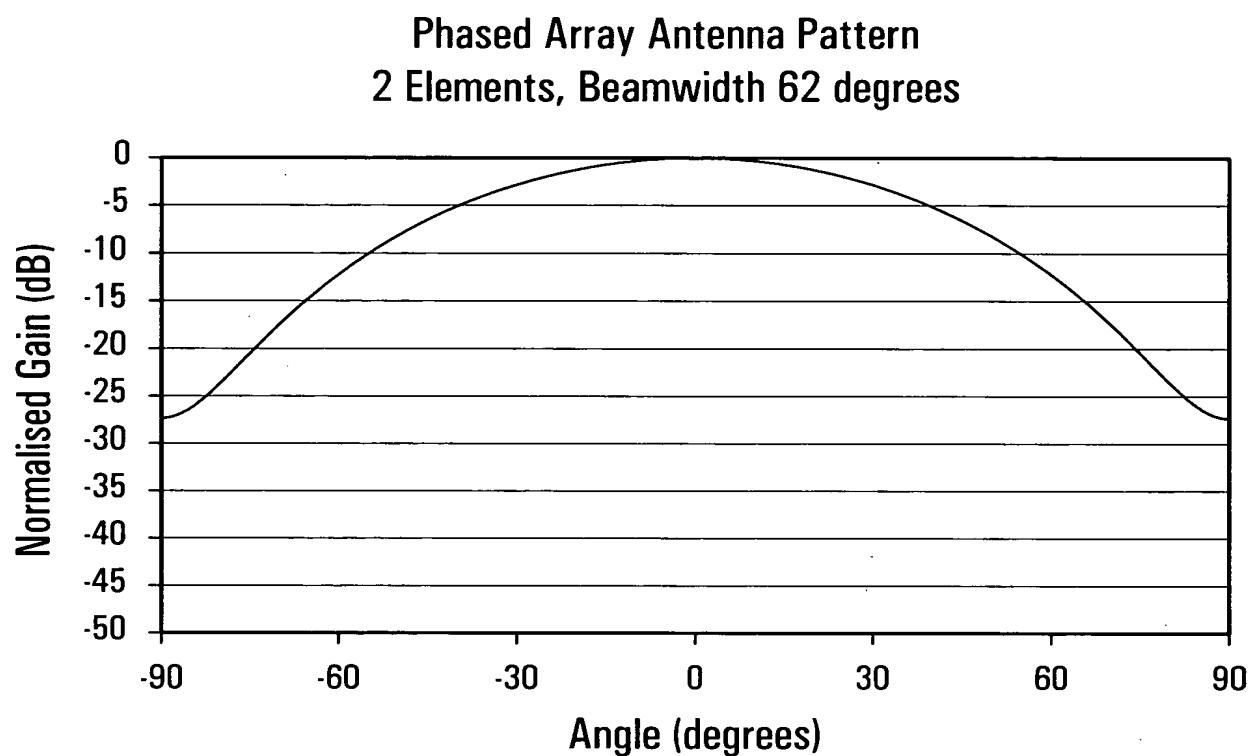


FIG. 8

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Phased Array Antenna Pattern
4 Elements, Beamwidth 34 degrees

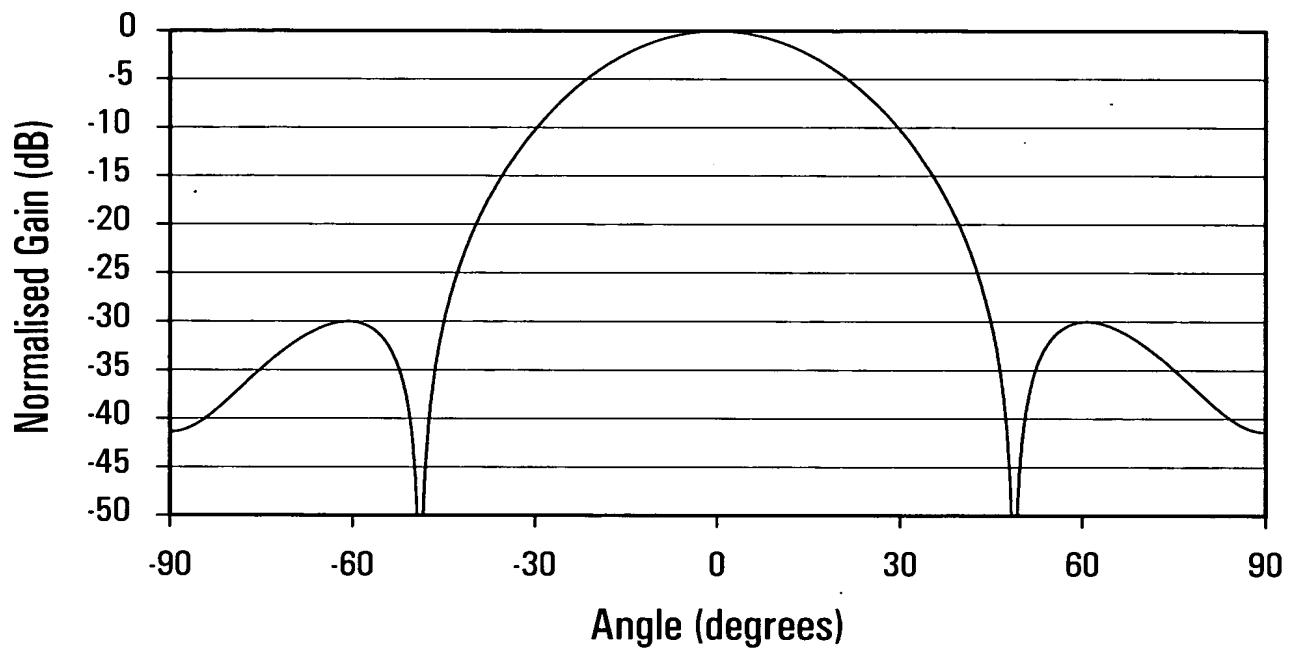


FIG. 9

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Phased Array Antenna Pattern
10 Elements, Beamwidth 13 degrees

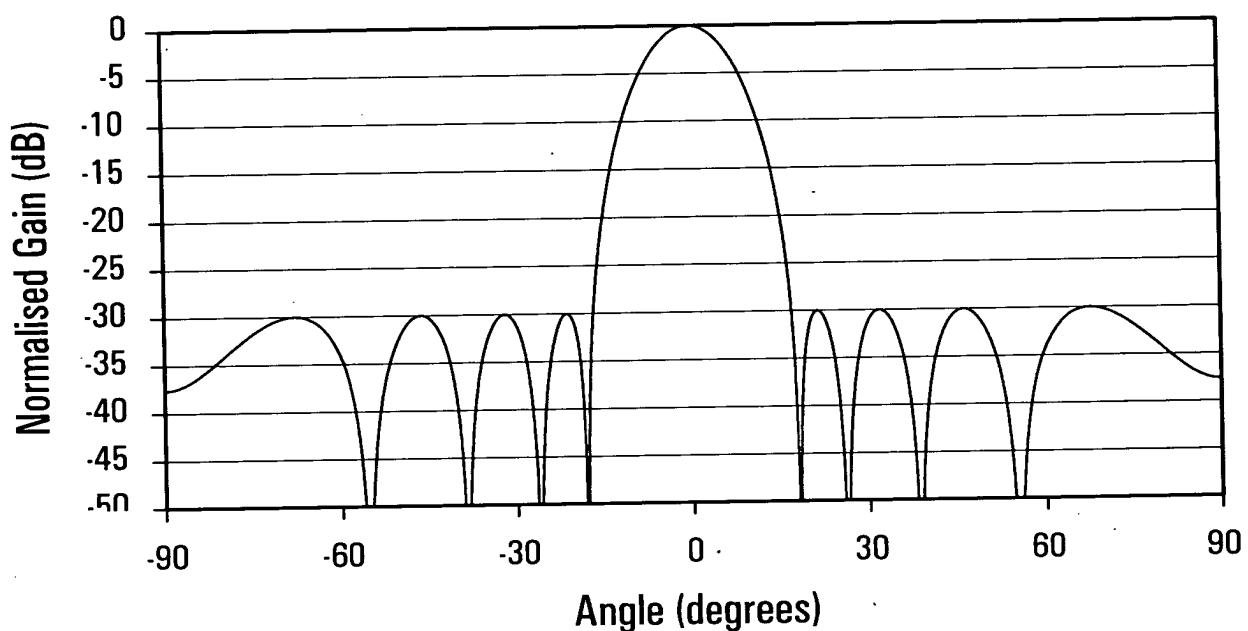


FIG. 10

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**Phased Array Antenna Pattern
20 Elements, Beamwidth 7 degrees**

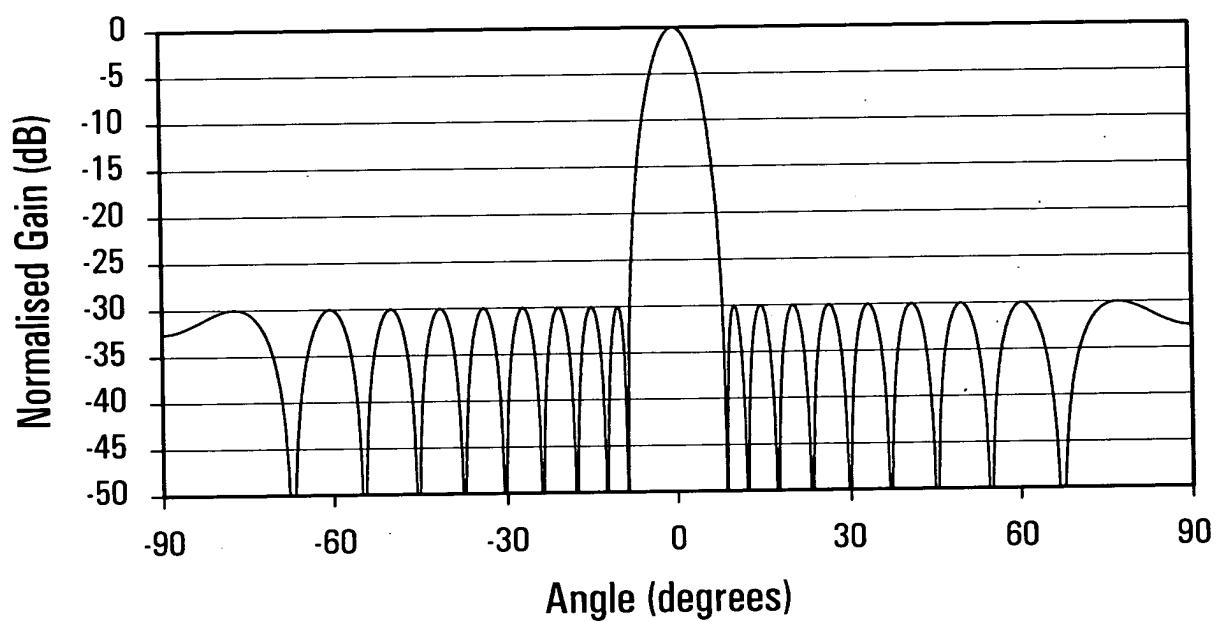


FIG. 11

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**Phased Array Antenna Pattern
36 Elements, Beamwidth 4 degrees**

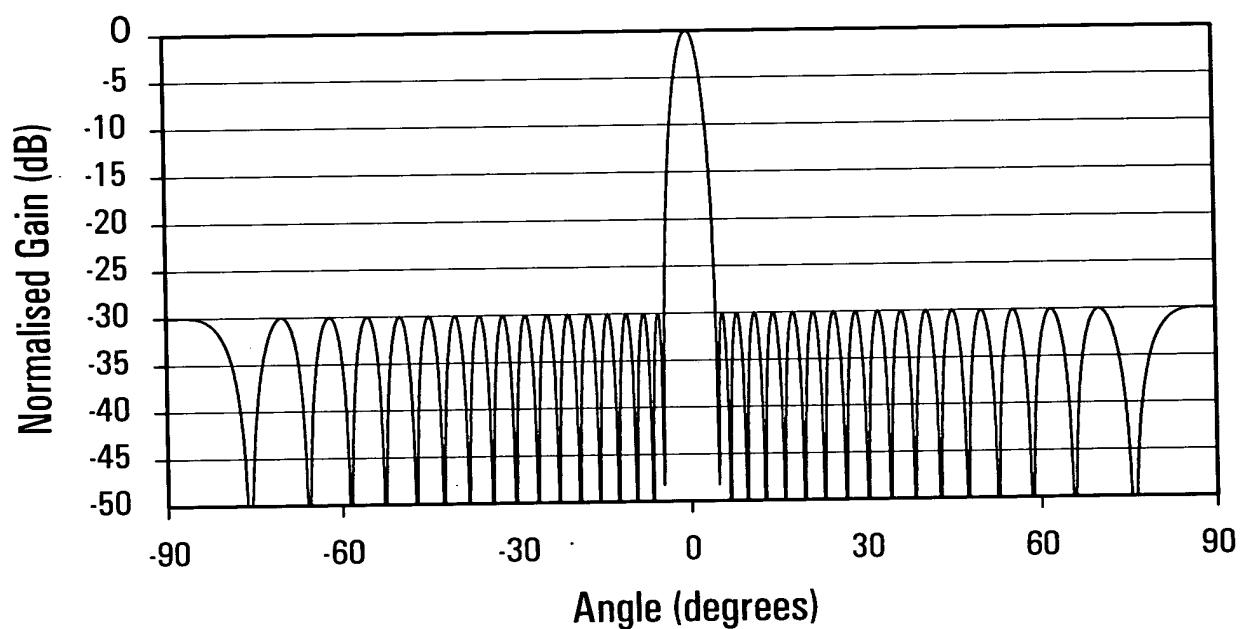


FIG. 12

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